EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	55	(562/824).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/06/06 07:23
L2	263	fluorine adj liquid	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L3	5786	fluorine adj gas	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 07:23
L4	5999	(fluorine adj liquid) or (fluorine adj gas)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L5	1191	elemental near3 fluorine	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L6	6896	((fluorine adj liquid) or (fluorine adj gas)) or (elemental near3 fluorine)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 06:32
L7	0	US-06586626-$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L8	173	560/184	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L9	3	(fluorine adj liquid) and 560/184	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L10	1	US-0658662-$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L11	1	"0056694".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41

EAST Search History

L12	7	((562/825).CCLS.) and ((fluorine adj liquid) or (fluorine adj gas))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L13	5	((562/825).CCLS.) and (elemental near3 fluorine)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L14	17	(((fluorine adj liquid) or (fluorine adj gas)) or (elemental near3 fluorine)) and (US-6586626-$.DID. OR US-3900372-$.DID. OR US-4524032-$.DID. OR US-4868318-$.DID. OR US-4996369-$.DID. OR US-5093432-$.DID. OR US-5322903-$.DID. OR US-5466877-$.DID. OR US-0488142-$.DID. OR US-5571870-$.DID. OR US-5578278-$.DID. OR US-5674949-$.DID. OR US-5753776-$.DID. OR US-6093860-$.DID. OR US-6255536-$.DID.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L15	29	US-6586626-$.DID. OR US-3900372-$.DID. OR US-4524032-$.DID. OR US-4868318-$.DID. OR US-4996369-$.DID. OR US-5093432-$.DID. OR US-5322903-$.DID. OR US-5466877-$.DID. OR US-5488142-$.DID. OR US-5571870-$.DID. OR US-5578278-$.DID. OR US-5674949-$.DID. OR US-5753776-$.DID. OR US-6093860-$.DID. OR US-6255536-$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L16	2	"6586626".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L17	2	("3900372").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/06/06 05:41
L18	137	(562/825).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/06/06 05:41
L19	934	fluorosulfonyl	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41

EAST Search History

L20	1041	fluorosulfonyl$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L21	1251	L19 or L20	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L22	4271	(sulfonylfluoride) or (sulfonyl adj fluoride)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L23	58	L21 same L22	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L24	4	L4 and L23	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L25	29	US-6586626-$.DID. OR US-3900372-$.DID. OR US-4524032-$.DID. OR US-4868318-$.DID. OR US-4996369-$.DID. OR US-5093432-$.DID. OR US-5322903-$.DID. OR US-5466877-$.DID. OR US-0488142-$.DID. OR US-5571870-$.DID. OR US-5578278-$.DID. OR US-5674949-$.DID. OR US-5753776-$.DID. OR US-6093860-$.DID. OR US-6255536-$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L26	2	"6255536".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 05:41
L27	692	(((fluorine adj liquid) or (fluorine adj gas)) or (elemental near3 fluorine) and ((sulfonylfluoride) or (sulfonyl adj fluoride))).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 06:34
L28	225	(((fluorine adj liquid) or (fluorine adj gas)) or (elemental near3 fluorine) and ((sulfonylfluoride) or (sulfonyl adj fluoride))).clm.	US-PGPUB	OR	ON	2006/06/06 06:34
L29	225	(((fluorine adj liquid) or (fluorine adj gas)) or (elemental near3 fluorine) and ((sulfonylfluoride) or (sulfonyl adj fluoride)) and decompos$).clm.	US-PGPUB	OR	ON	2006/06/06 06:35
L30	4	(fluorine and ((sulfonylfluoride) or (sulfonyl adj fluoride)) and decompos$).clm.	US-PGPUB	OR	ON	2006/06/06 06:35

EAST Search History

L31	137	(562/825).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/06/06 07:23
L32	242677	fluorine	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 07:23
L33	57	l31 and l32	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/06 07:24

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NEWS 11	APR 03	Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL
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NEWS 14	APR 12	Improved structure highlighting in FQHIT and QHIT display in MARPAT
NEWS 15	APR 12	Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected
NEWS 16	MAY 10	CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS 17	MAY 11	KOREAPAT updates resume
NEWS 18	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS 19	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2
NEWS 20	MAY 30	The F-Term thesaurus is now available in CA/CAplus
NEWS 21	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS EXPRESS		FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT http://download.cas.org/express/v8.0-Discover/
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FILE LAST UPDATED: 5 Jun 2006  (20060605/ED)

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=> sulfonylfluoride or (sulfonyl fluoride)
             90 SULFONYLFLUORIDE
              6 SULFONYLFLUORIDES
             96 SULFONYLFLUORIDE
                (SULFONYLFLUORIDE OR SULFONYLFLUORIDES)
          29947 SULFONYL
             18 SULFONYLS
          29958 SULFONYL
                (SULFONYL OR SULFONYLS)
         249387 FLUORIDE
          44668 FLUORIDES
         265073 FLUORIDE
                (FLUORIDE OR FLUORIDES)
            981 SULFONYL FLUORIDE
                (SULFONYL(W)FLUORIDE)
L1         1064 SULFONYLFLUORIDE OR (SULFONYL FLUORIDE)

=> fluorine
         100846 FLUORINE
            533 FLUORINES
L2       101142 FLUORINE
                (FLUORINE OR FLUORINES)

=> l1 and l2
L3           83 L1 AND L2

=> 73-83 ti
         158804 73
         162706 83
         344835 TI
           1144 TIS
         345678 TI
                (TI OR TIS)
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L4 0 73-83 TI
(73(W)83(W)TI)

=> d l7 73-83 ti
L7 NOT FOUND
The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> d l3 73-83 ti

L3 ANSWER 73 OF 83 CAPLUS COPYRIGHT 2006 ACS on STN
TI Photochemical etching of silicon dioxide surface layer

L3 ANSWER 74 OF 83 CAPLUS COPYRIGHT 2006 ACS on STN
TI β-Sultones containing **fluorine.** XXXII. Fluorosulfo-containing triazines

L3 ANSWER 75 OF 83 CAPLUS COPYRIGHT 2006 ACS on STN
TI β-Sultones containing **fluorine.** XXVII. α-Hydrotetrafluoroethanesulfonic acid derivatives

L3 ANSWER 76 OF 83 CAPLUS COPYRIGHT 2006 ACS on STN
TI Aromatic fluoro derivatives. XXIV. **Fluorine**-substituted benzenesulfonyl fluorides

L3 ANSWER 77 OF 83 CAPLUS COPYRIGHT 2006 ACS on STN
TI **Fluorine**-containing carbon compounds

L3 ANSWER 78 OF 83 CAPLUS COPYRIGHT 2006 ACS on STN
TI Structure and reactivity of **fluorine**-containing β-sultones

L3 ANSWER 79 OF 83 CAPLUS COPYRIGHT 2006 ACS on STN
TI Reactive dyes containing fluorosulfonyl groups

L3 ANSWER 80 OF 83 CAPLUS COPYRIGHT 2006 ACS on STN
TI **Fluorine**-containing β-sultones. II. Hydrolysis of tetrafluoroethane β-sultone

L3 ANSWER 81 OF 83 CAPLUS COPYRIGHT 2006 ACS on STN
TI Toxic **fluorine** compounds. VIII. ω-Fluoroalkanesulfonyl chlorides and fluorides

L3 ANSWER 82 OF 83 CAPLUS COPYRIGHT 2006 ACS on STN
TI Substituted pyridines

L3 ANSWER 83 OF 83 CAPLUS COPYRIGHT 2006 ACS on STN
TI **Sulfonyl fluorides** of amino azo dyes

=> l1(l0l2
MISSING OPERATOR 'L1(L0L2'
The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> l1(l)l2
L5 25 L1(L)L2

=> d l5 10-25 ti

L5 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Dissolution characteristics of acidic groups for 157-nm resist

L5 ANSWER 11 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Process for the preparation of fluorinated derivatives of nucleosides or

sugars

L5 ANSWER 12 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Chemical modification of a Nafion sulfonyl fluoride precursor via in situ sol-gel reactions

L5 ANSWER 13 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Chemical treatment of glass surface with fluorine-containing silanes

L5 ANSWER 14 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Photopolymerized Epoxide Copolymer Thin Films with Surfaces Highly Enriched with Sulfonyl Fluoride Groups

L5 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI New polyfluoroalkoxysulfonyl fluorides. Part VIII. Alcoholic and polymeric derivatives

L5 ANSWER 16 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Separation of perfluoroalkyl sulfonyl fluoride

L5 ANSWER 17 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI A useful synthesis of ω-iodoperfluoroalkanesulfonyl fluorides and perfluoroalkane-α,ω-bis-sulfonyl fluorides

L5 ANSWER 18 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Improved acid electrolytes - the synthesis and structure of fluorine-containing sulfonic acids for fuel cells. Final report July 1987-August 1988

L5 ANSWER 19 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Process for manufacture of hypofluorites and bishypofluorites

L5 ANSWER 20 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI New sulfonyl fluoride esters

L5 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Synthesis and evaluation of **fluorine**-19-labeled **sulfonyl fluorides** as probes of protease structure: α-chymotrypsin

L5 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Fluorine-containing β-sultones. 50. Geminal bis(fluorosulfonyl)-containing compounds

L5 ANSWER 23 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Inorganic volatile fluorides obtained from electrical decomposition of sulfur hexafluoride in a quartz tube

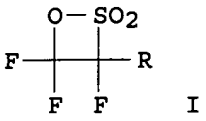
L5 ANSWER 24 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI **Fluorine**-containing β-sulfones. 46. 2-Hydrohexafluoropropane-2-**sulfonyl fluoride**

L5 ANSWER 25 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Substituted pyridines

=> d l5 20 ti fbib abs

L5 ANSWER 20 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI New sulfonyl fluoride esters
AN 1987:477290 CAPLUS
DN 107:77290
TI New sulfonyl fluoride esters
AU Khalilolahi, Jilla; Mohtasham, Javid; Lerchen, Megan E.; Sheets, Roger M.; Gard, Gary L.
CS Dep. Chem., Portland State Univ., Portland, OR, 97207, USA

SO Inorganic Chemistry (1987), 26(14), 2307-9
CODEN: INOCAJ; ISSN: 0020-1669
DT Journal
LA English
OS CASREACT 107:77290
GI



I

AB New **sulfonyl fluoride** esters FSO2CF2C(O)ORf [Rf = CF3CH2, (CF3)3C, C6F5], FSO2CF(CF3)C(O)ORf [Rf = CF3CH2, (CF3)2CH, C6F5], and FSO2CF(CF3)C(O)OR (R = Et, allyl) were prepared by using the perfluoro sultones I (R = F, CF3) with appropriate polyfluoro/perfluoro alcs. or hydrocarbon alcs. in the presence of NaF. In a like manner the diester [FSO2CF(CF3)C(O)OCH2]2 was prepared from ethylene glycol and I (R = CF3). Unlike the fluorinated esters with **fluorine** at the alkoxy α-carbon atoms, these esters are stable in the presence of fluoride ion at 25° or higher temperature Their IR, NMR, and mass spectra are reported.

=> d l5 1-9 ti

L5 ANSWER 1 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Simple transformation of thymine 1-[3-hydroxy-2-(phosphonomethoxy)propyl] derivatives to their 1-[3-fluoro-2-(phosphonomethoxy)propyl] counterparts

L5 ANSWER 2 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Pyrimidine 1-[2-(phosphonomethoxy)propyl] derivatives: their syntheses and utilization as potent inhibitors of thymidine phosphorylase (PD-ECGF) from Sd-lymphoma

L5 ANSWER 3 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Method for producing **fluorine**-containing unsaturated **sulfonyl fluoride**

L5 ANSWER 4 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Preparation of stabilized fluoropolymer

L5 ANSWER 5 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Process for production of fluorinated sulfonyl fluorides useful for ion exchange resins and chemical-resistant substances

L5 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Process for preparation of perfluorinated sulfonyl fluorides

L5 ANSWER 7 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Method for producing **fluorine**-containing **sulfonyl fluoride** compound

L5 ANSWER 8 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Process for preparing (per)fluorohalogen ethers by the reaction of acyl fluorides with halogenated 1,2-difluoroethylenes

L5 ANSWER 9 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Fluoro type surfactants

=> d l5 3,5-7 ti fbib abs

L5 ANSWER 3 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Method for producing **fluorine**-containing unsaturated **sulfonyl fluoride**
AN 2005:729629 CAPLUS
DN 143:193723
TI Method for producing **fluorine**-containing unsaturated **sulfonyl fluoride**
IN Sugiyama, Akinari; Ichihara, Kazuyoshi; Shinoki, Noriyuki; Mantani, Toshiya; Kondou, Masahiro
PA Daikin Industries, Ltd., Japan
SO PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005073182	A1	20050811	WO 2005-JP1005	20050126

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

JP 2004-25768 A 20040202

OS CASREACT 143:193723; MARPAT 143:193723
AB A method for producing a **fluorine**-containing unsatd. **sulfonyl fluoride** represented by the chemical formula RfSO2F (wherein Rf is a **fluorine**-containing hydrocarbon group having at least one unsatd. bond and may contain at least one element selected from oxygen, nitrogen and sulfur) is characterized in that a **fluorine**-containing unsatd. sulfonyl chloride represented by the chemical formula RfSO2Cl (wherein Rf is as defined above) is reacted with at least one fluorinating agent selected from alkylamine hydrofluoride, pyridine hydrofluoride, and polyvinylpyridine hydrofluoride. By this method, a **fluorine**-containing **sulfonyl fluoride** having an unsatd. bond can be com. advantageously produced at low cost. Furthermore, this method enables to produce the **fluorine**-containing unsatd. **sulfonyl fluoride** in a simple procedure with high selectivity and high yield. Thus, 20.0 g CF2:CFOCF2CF2SO2Cl was added dropwise at 1.67 g/min to 33.5 g Et3N.(HF)3 with stirring at 22° during which the liquid temperature rose from 22° to 33°. After completion of the addition, the resulting mixture was stirred for .apprx.1 h to give a reaction mixture with three phases Et3N.(HF)n (n = 4-6) (liquid phase)/Et3N.HCl(solid phase)/CF2:CFOCF2CF2SO2Cl (product liquid phase) (bottom phase) which was distilled by a simple distillation to give 96.0% CF2:CFOCF2CF2SO2Cl.
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Process for production of fluorinated sulfonyl fluorides useful for ion exchange resins and chemical-resistant substances
AN 2005:29302 CAPLUS
DN 142:114654
TI Process for production of fluorinated sulfonyl fluorides useful for ion exchange resins and chemical-resistant substances
IN Murata, Koichi; Okazoe, Takashi; Murotani, Eisuke
PA Asahi Glass Company, Limited, Japan

SO PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005003082	A1	20050113	WO 2004-JP9769	20040702
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
			JP 2003-271071	A 20030704
EP 1642890	A1	20060405	EP 2004-747237	20040702
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
			JP 2003-271071	A 20030704
			WO 2004-JP9769	W 20040702
US 2006111584	A1	20060525	US 2005-318978	20051228
			JP 2003-271071	A 20030704
			WO 2004-JP9769	A1 20040702

AB Title process comprises (i) oxidizing a compound YSRAERB with an oxidizing agent containing a halogen atom as the essential constituent into a compound XSO2RAERB, (ii) converting the obtained compound into FSO2RAFEFRBF by reacting with fluoride when X is a fluorine atom or after conversion of X into a fluorine atom when X is a halogen atom other than fluorine in a liquid phase, and (iii) decomposing this compound into a compound FSO2RAFCOF, wherein RA = a divalent organic group such as alkylene; RB, RBF = a monovalent organic group such as perfluoroalkyl; E = CH2OCO; Y = a monovalent organic group such as cyano; X = a halogen atom; RAF = a divalent organic group obtained by fluorinating RA; and EF = CF2OCO. Thus, 21.7 g 3-bromo-1-propanol and 64.1 g 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy]-propanoyl fluoride reacted, the resulting compound was reacted with thiocyanic acid potassium salt, reacted with chlorine, substituted with fluoride, perfluorinated, and decomposed to give perfluoro(3-fluorosulfonyl)propionyl fluoride, which was reacted with hexafluoropropene oxide in the presence of cesium fluoride and diglyme, potassium hydrogen carbonate and glyme were added therein, and heated at 180-210° to give FSO2(CF2)3OCF:CF2.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
TI Process for preparation of perfluorinated sulfonyl fluorides
AN 2005:29287 CAPLUS
DN 142:113432
TI Process for preparation of perfluorinated sulfonyl fluorides
IN Murata, Koichi; Okazoe, Takashi; Murotani, Eisuke
PA Asahi Glass Company, Limited, Japan
SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005003062	A2	20050113	WO 2004-JP9779	20040702
WO 2005003062	A3	20050324		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

			JP 2003-270412	A	20030702
EP 1640362	A2	20060329	EP 2004-747247		20040702
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK					
			JP 2003-270412	A	20030702
			WO 2004-JP9779	W	20040702
US 2006106252	A1	20060518	US 2006-322396		20060103
			JP 2003-270412	A	20030702
			WO 2004-JP9779	A1	20040702

OS MARPAT 142:113432

AB This invention pertains to a method for producing fluorinated sulfonyl fluorides with general formula of (FSO2)nRAF(EF1)m [wherein RAF = a (fluorinated) (n+m) valent organic group having two or more carbon atoms; EF1 = one valent organic group; n ≥ 2; m ≥ 1] via fluorination and decomposition For example, (FSO2CF2)2CFCOF was prepared in a multi-step synthesis starting from (BrCH2)2CHCO2H in good yield. This invention provides a convenient method to prepare perfluorinated sulfonyl fluorides at low cost with industrial advantages.

L5 ANSWER 7 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

TI Method for producing **fluorine**-containing **sulfonyl fluoride** compound

AN 2004:927161 CAPLUS

DN 141:395193

TI Method for producing **fluorine**-containing **sulfonyl fluoride** compound

IN Murata, Koichi; Okazoe, Takashi; Murotani, Eisuke

PA Asahi Glass Company, Limited, Japan

SO PCT Int. Appl., 34 pp.
CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004094365	A1	20041104	WO 2004-JP5874	20040423
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
			JP 2003-119874	A 20030424

OS CASREACT 141:395193

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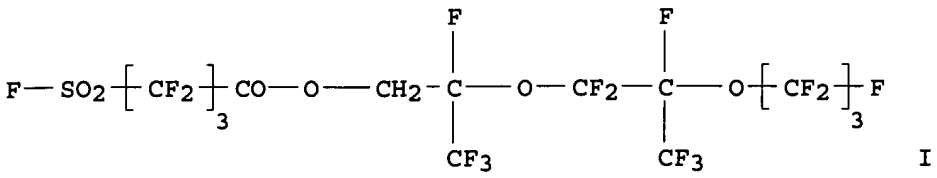

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AB A method for producing a **fluorine**-containing **sulfonyl fluoride** compound which comprises oxidizing RB-E-RA-S-S-RA-E-RB to form XSO2-RA-E-RB, reacting the oxidation product with **fluorine** in a liquid phase to form FSO2-RAF-EF-RBF, and decomposing the fluorination product to prepare FSO2-RAF-COF [RA = divalent organic group; RAF = divalent organic group or the like; RB = monovalent organic group; RBF = monovalent organic group or the like; E = -COOCH2-; EF = -COOCF2- ; X = halo] is disclosed. The method is almost free from major conventional difficulties associated with the production of the above **sulfonyl fluoride**, and also allows the production of **fluorine**-containing **sulfonyl fluoride** compds. having various mol. structures and being useful as a raw material for an ion exchange resin or the like with good efficiency at a low cost. For example, a mixture of compound I (4.2 g), e.g., prepared from (S(CH2)3COOH)2 in 4 steps, and NaF (0.03 g) was stirred at 140 °C for 10 h and analyzed by GC-MS. The yield of FSO2(CF2)3COF was 73.7%. Of note, disclosed compds. are useful intermediates for ionic exchange resin.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	44.29	44.71

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.75	-3.75

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